LineUp With Math™ Alignment
Texas Essential Knowledge and Skills (TEKS) for Mathematics
§111.17 Mathematics, Grade 5

b. Knowledge and Skills

(4) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:

Knowledge and Skills and Performance Descriptions	***LineUp With Math™* Activities**
(B) estimate to solve problems where exact answers are not required.	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

(14) Underlying processes and mathematical tools. The student applies Grade 5 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:

Knowledge and Skills and Performance Descriptions	***LineUp With Math™* Activities**
(A) identify the mathematics in everyday situations.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
(B) use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.
(C) select or develop an appropriate problem-solving strategy including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem;	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.
(D) use tools such as real objects, manipulatives, and technology to solve problems.	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

(15) Underlying processes and mathematical tools. The student communicates about Grade 5 mathematics using informal language. The student is expected to:

Knowledge and Skills and Performance Descriptions	***LineUp With Math™* Activities**
(A) explain and record observations using objects, words, pictures, numbers, and technology; and	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.
(B) relate informal language to mathematical language and symbols.	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

(16) Underlying processes and mathematical tools. The student uses logical reasoning to make sense of his or her world. The student is expected to:	
Knowledge and Skills and Performance Descriptions (A) make generalizations from patterns or sets of examples and non-examples; and	***LineUp With Math™*** **Activities** --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
(B) justify why an answer is reasonable and explain the solution process.	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.